



At page 41, line 1, after "IPM 150 Primer Pairs", please insert --(SEQ ID NOs:12-45)--.

IN THE CLAIMS

Please cancel claims 3, 14-22, and 28-30 without prejudice. Please amend claim 1, and add new claims 33-45 as follows.

1 1. (Amended) An isolated or recombinant nucleic acid [which
2 hybridizes to a nucleic acid having the sequence set forth in SEQ ID NO:1, 3 or 5] comprising
3 a nucleotide sequence or its complement, wherein said nucleotide sequence encodes:

4 (a) a polypeptide comprising at least 72 contiguous amino acid residues of
5 SEQ ID NO:6;

6 (b) a polypeptide comprising at least 180 contiguous amino acid residues of
7 SEQ ID NO:4; or

8 (c) a polypeptide comprising at least 10 contiguous amino acid residues of
9 SEQ ID NO:2.

1 2. (As filed) A nucleic acid comprising the sequence set forth in SEQ
2 ID NO:1, 3 or 5.

1 Please add new claims 33-45 as follows.

2 --33. (New) The nucleic acid of claim 1, comprising a nucleotide sequence or
3 its complement, wherein said nucleotide sequence encodes a polypeptide comprising at least
4 72 contiguous amino acid residues of SEQ ID NO:6.

1 34. (New) The nucleic acid of claim 1, comprising a nucleotide sequence or
2 its complement, wherein said nucleotide sequence encodes a polypeptide comprising at least
3 180 contiguous amino acid residues of SEQ ID NO:4.

1 35. (New) The nucleic acid of claim 1, comprising a nucleotide sequence or
2 its complement, wherein said nucleotide sequence encodes a polypeptide comprising at least
3 10 contiguous amino acid residues of SEQ ID NO:2.

1 36. (New) An isolated or recombinant nucleic acid comprising a nucleotide
2 sequence or its complement, wherein said nucleotide sequence encodes:

3 (a) at least 10 contiguous amino acid residues from residues 42-215 of SEQ
4 ID NO:4;

5 (b) at least 136 contiguous amino acid residues from residues 221-565 of
6 SEQ ID NO:4;

7 (c) at least 20 contiguous amino acid residues from residues 591-630 of
8 SEQ ID NO:4;

9 (d) at least 10 contiguous amino acid residues from residues 688-731 of
10 SEQ ID NO:4; or

11 (f) at least 5 contiguous amino acid residues from residues 735-743 of SEQ
12 ID NO:4.

1 37. (New) The nucleic acid of claim 36, wherein said nucleotide sequence
2 encodes at least 10 contiguous amino acid residues from residues 42-215 of SEQ ID NO:4.

1 38. (New) The nucleic acid of claim 36, wherein said nucleotide sequence
2 encodes at least 136 contiguous amino acid residues from residues 221-565 of SEQ ID NO:4.

1 39. (New) The nucleic acid of claim 36, wherein said nucleotide sequence
2 encodes at least 20 contiguous amino acid residues from residues 591-630 of SEQ ID NO:4.

1 40. (New) The nucleic acid of claim 36, wherein said nucleotide sequence
2 encodes at least 10 contiguous amino acid residues from residues 688-731 of SEQ ID NO:4.